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(54) METHOD AND EQUIPMENT FOR DETECTING DEFECTIVE ASSEMBLY OF MULTICORE OPTICAL CONNECTOR

(57)Abstract:

PURPOSE: To enhance efficiency in the assembling work while reducing the cost by picking up the image of each state of a coated optical fiber when it is secured to a coated optical fiber guide part in the direction of Z-axis from above the coated optical fiber guide part.

CONSTITUTION: The exposed core 3 of a ribbon optical fiber secured by means of a securing jig is clamped by a upper retainer 1 and a lower receiver 2 each having a Z-axis drive means before being centered by means of a V-groove 5 in the lower receiver. During the operation for inserting the core 3 into an optical connector 11, an image pickup camera 6 being set on Z-axis detects the arranged state of coated optical fiber 3, the inserted state of the forward end of optical fiber, and the fully inserted state of optical fiber into a centering hole.

The original image is presented on a monitor based on the images picked up by the camera 6 and processed by means of a programmable controller thus judging whether the connector assembly is acceptable or not.

